

Scaled data based on original data using
LM-79-08 Approved Method: Electrical and Photometric Measurements of Solid-State
Lighting Products

Test Report Prepared for

Cooper Lighting Solutions

(formerly Eaton)

Brand: METALUX

Report Number: P#

Luminaire Tested: **VRVT4S-LD5-9-DRF-L850-CD1-U**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P#
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G3-1801-511-5)
Test Lab: INNOVATION CENTER(G3)
Issue Date: 3/3/2020
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: METALUX
Catalog Number: VRVT4S-LD5-9-DRF-L850-CD1-U
Description: VRVT4S VAPORTIGHT FIXTURE WITH 5000K LED AND FROSTED ACRYLIC LENS
Light Source: -
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 9913.0 lumens
Efficiency: N/A
Efficacy: 161.2 lumens/watt
Spacing Criteria (0/90/45): 1.24 / 1.26 / 1.36
Luminous Opening: Rectangular w/ Sides (W: 1.08' x L: 2.08' x H: 0.25')
CIE Type: Direct

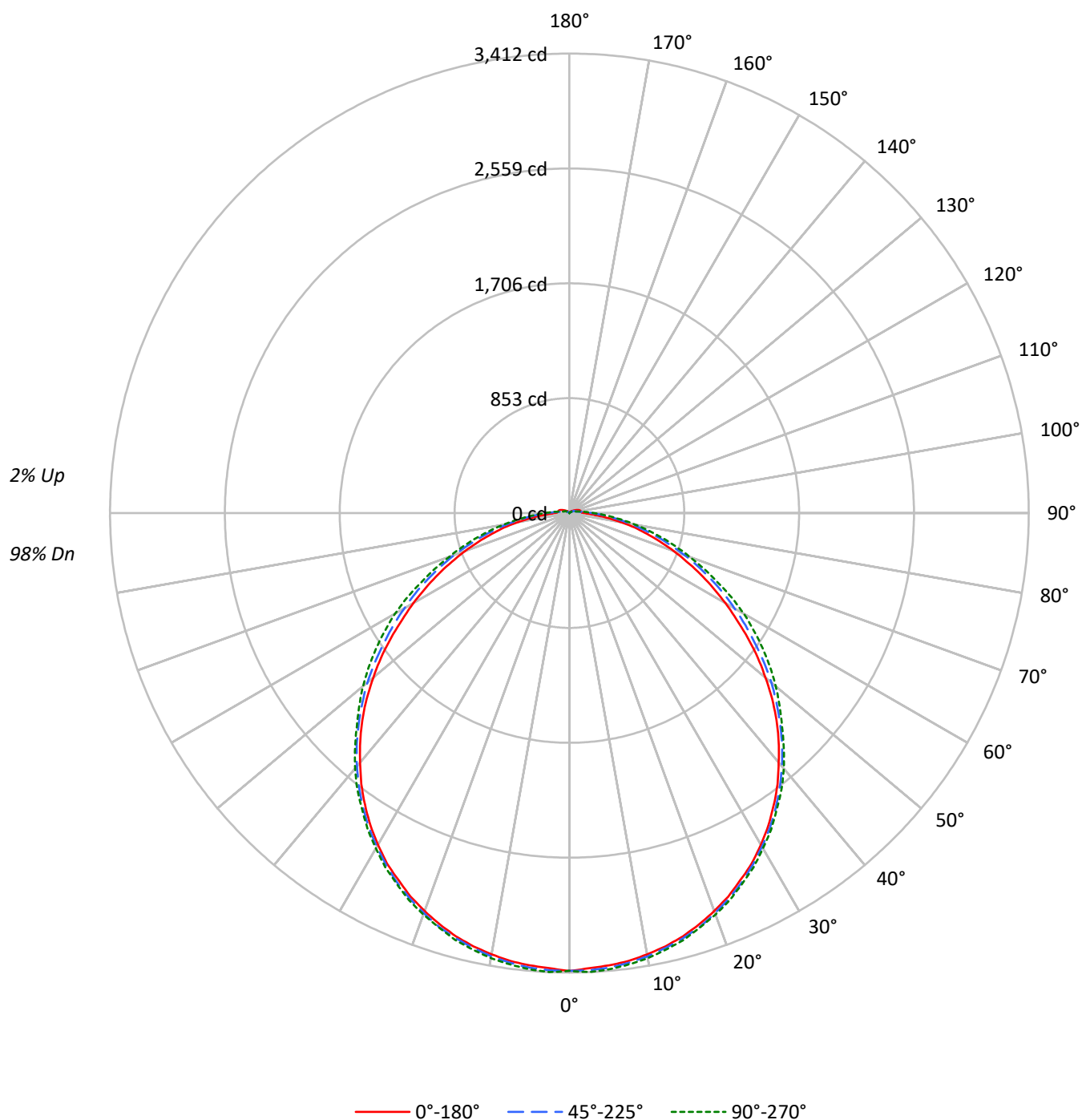
Input Watts (W): 61.5
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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Luminous Intensity Polar Plot





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COEFFICIENT OF UTILIZATION - ZONAL CAVITY METHOD:

RF	20				20					20					20					20
RC	80				70					50					30					0
RW	70	50	30	10	70	50	30	10		50	30	10		50	30	10		50	30	10
RCR																				
0	118	118	118	118	115	115	115	115		110	110	110		105	105	105		100	100	100
1	108	103	98	94	105	100	96	92		95	92	89		91	88	86		87	85	83
2	98	89	82	77	95	87	81	75		83	78	73		80	75	71		76	73	69
3	89	78	70	64	86	77	69	63		73	67	61		70	65	60		67	63	59
4	82	69	61	54	79	68	60	53		65	58	52		63	56	51		60	55	50
5	75	62	53	46	73	61	52	46		58	51	45		56	50	45		54	48	44
6	69	56	47	40	67	55	46	40		53	45	40		51	44	39		49	43	39
7	64	51	42	36	62	50	41	36		48	41	35		46	40	35		45	39	34
8	60	46	38	32	58	45	37	32		44	37	31		43	36	31		41	35	31
9	56	42	34	29	54	42	34	29		40	33	28		39	33	28		38	32	28
10	52	39	31	26	51	39	31	26		37	30	26		36	30	25		35	29	25

AVERAGE LUMINANCE (cd/sqm):

	0°	45°	90°
0°	16221	16221	16221
5°	15981	15884	15967
10°	15784	15514	15622
15°	15572	15133	15265
20°	15300	14724	14859
25°	14989	14284	14433
30°	14657	13789	13979
35°	14221	13257	13462
40°	13686	12658	12923
45°	13112	11965	12239
50°	12349	11223	11650
55°	11485	10324	10959
60°	10573	9451	10200
65°	9639	8546	9147
70°	8645	7524	8113
75°	7587	6409	7074
80°	6321	5260	5945
85°	4693	4086	4679



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	321.9	3.2
10°-20°	921.5	9.3
20°-30°	1393.5	14.1
30°-40°	1669.1	16.8
40°-50°	1704.8	17.2
50°-60°	1509.4	15.2
60°-70°	1144.1	11.5
70°-80°	705.2	7.1
80°-90°	312.0	3.1
90°-100°	112.1	1.1
100°-110°	60.1	0.6
110°-120°	35.8	0.4
120°-130°	16.5	0.2
130°-140°	5.1	0.1
140°-150°	1.0	0.0
150°-160°	0.4	0.0
160°-170°	0.4	0.0
170°-180°	0.1	0.0
0°-30°	2636.9	26.6
0°-40°	4306.0	43.4
0°-60°	7520.1	75.9
0°-90°	9681.4	97.7
90°-120°	208.0	2.1
90°-150°	230.7	2.3
90°-180°	232.0	2.3
0°-180°	9913.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	3400	3400	3400	3400	3400	
5°	3372	3378	3388	3398	3401	321
15°	3254	3256	3267	3275	3281	918
25°	3006	3015	3027	3036	3036	1386
35°	2646	2655	2671	2690	2685	1654
45°	2176	2188	2213	2239	2232	1675
55°	1617	1649	1681	1734	1752	1447
65°	1074	1102	1160	1205	1211	1064
75°	596	624	670	705	714	635
85°	203	244	286	311	311	207
90°	107	134	166	181	180	61
95°	88	88	96	106	105	71
105°	78	67	50	46	46	82
115°	52	42	33	28	29	52
125°	27	22	15	13	16	25
135°	12	10	3	3	5	10
145°	4	3	1	0	0	3
155°	1	1	1	1	0	1
165°	2	2	1	1	1	1
175°	2	2	2	1	1	0
180°	2	2	2	2	2	



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	3399.6	3399.6	3399.6	3399.6	3399.6
2.5°	3382.9	3386.9	3397.6	3408.3	3411.7
5°	3371.5	3378.2	3388.3	3397.6	3401.0
7.5°	3354.8	3360.2	3368.9	3378.2	3380.9
10°	3326.7	3332.8	3342.1	3350.8	3355.5
12.5°	3295.3	3298.0	3306.7	3316.7	3319.4
15°	3253.8	3256.5	3267.2	3274.6	3281.3
17.5°	3202.3	3205.0	3221.1	3224.4	3225.1
20°	3144.8	3148.8	3161.5	3167.6	3172.2
22.5°	3081.9	3087.3	3097.3	3104.7	3111.4
25°	3006.4	3015.1	3027.1	3036.5	3036.5
27.5°	2933.5	2934.8	2946.2	2956.2	2962.9
30°	2844.5	2845.8	2861.2	2872.6	2875.3
32.5°	2750.2	2755.6	2771.6	2783.6	2787.0
35°	2646.5	2655.2	2671.3	2690.0	2684.7
37.5°	2538.9	2543.5	2566.3	2581.7	2587.7
40°	2418.5	2431.8	2455.3	2472.0	2476.7
42.5°	2300.8	2312.8	2338.2	2354.3	2356.3
45°	2176.4	2188.4	2213.1	2238.6	2232.5
47.5°	2041.9	2060.6	2085.4	2112.1	2116.8
50°	1901.5	1928.9	1959.0	1981.1	2001.1
52.5°	1763.7	1785.8	1820.5	1860.0	1878.7
55°	1617.2	1649.3	1680.8	1733.6	1751.7
57.5°	1472.1	1510.9	1549.7	1607.9	1623.9
60°	1338.3	1369.1	1415.9	1472.8	1496.2
62.5°	1201.9	1237.3	1289.5	1341.7	1357.7
65°	1073.5	1101.6	1159.7	1204.6	1211.2
67.5°	944.4	977.8	1032.7	1079.5	1082.2
70°	824.0	854.1	906.9	946.4	950.4
72.5°	707.6	738.4	783.2	823.3	831.3
75°	595.9	624.0	669.5	704.9	714.3
77.5°	496.9	517.7	557.8	597.9	601.3
80°	386.6	410.7	460.8	494.3	499.6
82.5°	294.3	323.0	367.9	398.0	399.3
85°	203.3	243.5	286.3	311.0	311.0
87.5°	140.5	182.6	220.7	237.4	239.4
90°	107.0	134.4	165.9	180.6	179.9
92.5°	93.0	105.7	125.7	137.8	135.8
95°	87.6	87.6	96.3	105.7	105.0
97.5°	84.9	79.6	76.2	82.3	81.6
100°	84.3	74.9	62.9	65.5	66.2
102.5°	82.3	70.9	54.8	54.2	54.8
105°	78.3	66.9	49.5	45.5	46.1
107.5°	72.9	61.5	45.5	40.1	40.8
110°	66.2	54.8	41.5	36.1	36.1



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CANDELA DISTRIBUTION (continued):

	0°	22.5°	45°	67.5°	90°
112.5°	59.5	48.2	37.5	32.1	32.8
115°	51.5	41.5	32.8	28.1	29.4
117.5°	44.8	36.1	28.8	24.1	26.1
120°	38.1	31.4	23.4	20.1	22.7
122.5°	32.1	26.8	18.7	16.7	19.4
125°	27.4	22.1	14.7	13.4	16.1
127.5°	22.7	18.7	10.7	10.7	12.7
130°	18.7	15.4	6.7	8.0	10.0
132.5°	15.4	12.7	4.7	5.4	7.4
135°	12.0	10.0	3.3	3.3	5.4
137.5°	10.0	7.4	2.0	1.3	2.7
140°	7.4	5.4	1.3	0.0	0.7
142.5°	6.0	4.0	0.7	0.0	0.0
145°	4.0	2.7	0.7	0.0	0.0
147.5°	2.7	1.3	0.7	0.7	0.0
150°	1.3	1.3	0.7	0.7	0.0
152.5°	1.3	1.3	0.7	0.7	0.0
155°	1.3	1.3	1.3	0.7	0.0
157.5°	1.3	1.3	1.3	0.7	0.0
160°	1.3	1.3	1.3	0.7	0.7
162.5°	2.0	2.0	1.3	0.7	0.7
165°	2.0	2.0	1.3	0.7	0.7
167.5°	2.0	2.0	1.3	1.3	0.7
170°	2.0	2.0	1.3	0.7	0.7
172.5°	2.0	2.0	1.3	1.3	0.7
175°	2.0	2.0	2.0	1.3	0.7
177.5°	2.0	2.0	2.0	1.3	0.7
180°	2.0	2.0	2.0	2.0	2.0

(END OF REPORT)